IN THE CLAIMS:

- 1. (Withdrawn) A process for forming bonded cellulosic microfibers nonwovens comprises the steps of
- (a) extruding a cellulose solution (dope) through a concentric melt blown spinneret with a plurality of spinning nozzles
 - (b) drawing each individual extrudate filament to fine fiber diameter by its own air jet
- (c) coagulating and entangling the fine fibers with a series of pressured hydro needling jets of recycling solution of the mixture of cellulose solvent and non-solvent in the spin-line
- (d) collecting the stream of microfibers air and needling jets on a moving collecting surface to form cellulosic fiber web
- (e) hydro-entangling the said pre-bonded web downstream with at least one set of hydro needling jets of recycling solvent/non-solvent solution for forming well bonded nonwoven web
 - (f) regenerating the fine fibers in at least one bath for at least 5 seconds
 - (g) further regenerating and washing the fine fibers in another bath for at least 5 seconds
- (h) pinching the well bonded melt blown cellulosic nonwoven with pressure rollers to remove major portions of the non-solvent.
 - (i) drying the nonwoven web by heat or vacuum or both and
 - (j) winding the nonwoven web into rolls.

- 2. (Withdrawn) The process of claim 1 in which the spinning nozzles are arranged in at least one row with a nozzle-to-nozzle space of 0.050" to 1.000"
- 3. (Withdrawn) The process of claim 1 in which the spinning nozzles are 0.005" to 0.050" in inside diameter and 0.500" to 3.000" in length.
- 4. (Withdrawn) The process of claim 1 in which the spinning nozzles are concentric with their individual gas holes and protruded -0.005" to 0.800" from the top plate of the said gas holes.
- 5. (Withdrawn) The process of claim 1 in which the solvent of the cellulose solution is one or more of the following: NMMO dilute caustic soda phosphoric acid mixture of liquid ammonia/ammonia thiocynate and others.
- 6. (Withdrawn) The process of claim 1 in which the non-solvent of cellulose is one or more of the following: water alcohol (C.sub.nH.sub.2n+1OH n.ltoreq.10) and/or water/alcohol/solvent solutions
- 7. (Withdrawn) The process of claim 1 in which the recycling solvent/non-solvent solution is filtered and supplied from the regenerating bath by a high pressure pump and part of the solution is continuously removed from the said bath for solvent recycling.
- 8. (Withdrawn) The process of claim 1 in which the recycling NMMO solution is supplied to the needling jets from and come back to the first regenerating bath. The second washing bath is continuously filled with fresh non-solvent which is sprayed onto the nonwoven

web first. Part of the low concentration solution continuously overflow from the washing bath to the regenerating bath.

- 9. (Currently amended) The A collecting system for manufacturing the said cellulose fiber nonwoven comprises comprising:
 - (a) a paternally perforated drum with a diameter ranged from 20 inch to 70 inch;
- (b) at least one set of coagulating hydro needling jets jet heads from each of which are are expressed hydro jets which jets contact the contacts with flying fibers 0.5 inch to 30 inch from the collecting surface and at an angle from 5 degree to 75 degree (relative to the air blowing direction of movement of the jets);
- (c) at least another set of hydro needling jets jet heads downstream from the at least one set for both hydro-entangling and fiber regenerating;
 - (d) at least one regenerating bath and one washing bath with conveying belts;
 - (e) at least one vacuum section across and beneath the drum surface;
 - (f) at least one heating section across and above the drum surface.
- 10. (Currently amended) The collecting system of claim 4-9 in which the regenerating and washing bathes baths contain a series of rollers to guide the a nonwoven web being formed on the conveying belts.

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- 11. (Currently amended) The eonveying belt-collecting system of claim 9 wherein the collecting drum rotates at a certain surface speed and wherein the conveying belt is submerged in both bathes and moves slower than surface speed of the collecting drum.
- 12. (Withdrawn) The cellulosic nonwovens of claim 1 in which the fibers are essentially continuous with an average size of 1 to 30 micrometer in diameter and bonded by both self-bonding and hydro-entanglement.
- 13. (New) The collecting system of claim 9 wherein the jet heads are arranged in at least one row with a nozzle-to-nozzle space of 0.050" to 1.000"
- 14 (New) The collecting system of claim 9 wherein the jet heads are 0.005" to 0.050" in inside diameter and 0.500" to 3.000" in length.
- 15. (New) The collecting system of claim 9 wherein the jet heads protrude through gas holes in a top plate and are concentric with their individual gas holes and protrude -0.005" to 0.800" from the top plate.
- 16. (New) The collecting system of claim 9 wherein the cellulose is supplied in a form dissolved in a solvent and wherein the solvent is selected from the following: NMMO; dilute caustic soda; phosphoric acid; mixture of liquid ammonia/ammonia thiocynate.